

CLAIMS:

We claim:

1. A mobile outrigger scaffold using the vertical structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding comprising:

a horizontal bracket for deck support <sup>remove</sup> (also referred to as a deck support bracket having a restraint end and a supporting end;

a rectangular support plate having a flat side <sup>N.A.B.</sup> to be placed against a vertical structural member of a structure oriented from <sup>N.A.B.</sup> the interior edge <sup>S.A.I.D.</sup> to the exterior edge of such a vertical structural member;

said support plate having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

said support plate having ends shaped in a C-fold parallel to said vertical plate axis;

said ends having C-folds being sufficiently far apart so that said flat side of said plate having said C-folds can be placed against <sup>the</sup> a vertical structural member;

at least one of said C-folds having a clamping mechanism exerting pressure interior to <sup>which over?</sup> said C-fold to pull <sup>N.A.B.</sup> said opposite C-fold snugly against <sup>the</sup> a vertical structural member;

said support plate having two cylindrical protrusions located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

<sup>N.A.B.</sup> said support end of said deck support bracket <sup>matinsly receive</sup> having apertures to accommodate said cylindrical protrusions;

at least one of said protrusions having a securing means to restrain said deck support bracket onto <sup>N.A.B.</sup> said at least one protrusion;

so that when two of said mobile outrigger scaffolds are placed on adjacent structural <sup>some a 2 vertical structural members</sup> members of a structure, and for each said mobile outrigger scaffold said clamping mechanism is tightened snugly and said deck support bracket <sup>is received</sup> is placed on said cylindrical protrusions of each said mobile outrigger scaffold, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffolds permit movement <sup>of a use the</sup> exterior to a vertical structural member of <sup>the</sup> a

structure on said deck planks.

2. The mobile outrigger scaffold according to claim 1, further comprising:

said deck support bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end.

3. A mobile outrigger scaffold using the vertical structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, comprising:

a deck support bracket having a horizontal bracket and an angled support bracket  
said horizontal bracket having a restraint end and a supporting end;  
said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;

said angled support bracket attached to said horizontal bracket proximate to said restraint end of said horizontal bracket;

said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;

two rectangular support plates having a flat side to be placed against a vertical structural member of a structure oriented from the interior edge to the exterior edge of such a vertical structural member;

said support plates having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

said support plates having ends shaped in a C-fold parallel to said vertical plate axis;

one of said support plates being designated an upper support plate and the other of said support plates a lower support plate

said ends having C-folds being sufficiently far apart so that said flat side of said support plates having said C-folds can be placed against a vertical structural member;

at least one of said C-folds on at least one of said support plates having a clamping mechanism exerting pressure interior to said C-fold to pull said opposite C-fold of each said plate snugly against a vertical structural member;

said support plates each having at least one cylindrical protrusion located opposite said

flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

said supporting end of said horizontal bracket having apertures to accommodate said at least one cylindrical protrusions of said upper plate;

said horizontally oriented end of said angled bracket having apertures to accommodate said at least one cylindrical protrusions of said lower plate;

at least one of said at least one cylindrical protrusions on each said support plate having a securing means to restrain said horizontal bracket and said horizontally oriented bracket onto said protrusion;

so that when two of said mobile outrigger scaffolds are placed on adjacent structural members of a structure, and for each said mobile outrigger scaffold said upper and lower support plates are placed one above the other on a structural member of a structure, each said clamping mechanism is tightened snugly, and each said horizontal bracket is placed on each said upper support plate and each said horizontally oriented bracket is placed on each said lower support plate, and when deck planks are placed on said horizontal brackets, said mobile outrigger scaffolds permit movement exterior to a vertical structural member of a structure on deck planks set on said horizontal brackets.

4. A mobile outrigger scaffold using the vertical structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, comprising:

a horizontal bracket for deck support also referred to as a deck support bracket having a restraint end and a supporting end;

said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;

3 plates three rectangular plates having a flat side to be placed against a vertical structural member of a structure;

said plates having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

two of said plates being support plates to be placed on opposite sides of a vertical structural member, one interior to a vertical structural member and one on the exterior face of the

same vertical structural member;

said support plates having ends shaped in a C-fold parallel to said vertical plate axis;  
said ends having C-folds being sufficiently far apart so that said flat side of said plates having said C-folds can be placed against a vertical structural member;

at least one of said ends having C-folds on each plate having a clamping mechanism exerting pressure interior to said C-fold to pull said opposite C-fold on each said plate snugly against a vertical structural member;

said two of said support plates each having at least one cylindrical plate holder protrusion projecting from each of said at least one of two ends shaped in a C-fold, said plate holder protrusions being perpendicular to said vertical plate axis, parallel to said flat side and perpendicular to said C-fold;

said third of said three plates being a bracket plate having a flat side to be oriented toward a vertical structural member of a structure and said flat side having apertures to enable said bracket plate to be slid onto said cylindrical plate holder protrusions snugly against each of said two said plates when said support plates are placed on opposite sides of a vertical structure member and thereby said bracket plate to be oriented from the interior face to the exterior face of such a vertical structural member;

at least one of said three plates, said at least one plate at least being said bracket plate, having two cylindrical support protrusions located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

said supporting end of said horizontal bracket having apertures to accommodate said cylindrical support protrusions;

at least one of said cylindrical plate holder protrusions on each said support plate having a securing means to restrain said bracket plate;

at least one of said cylindrical support protrusions having a securing means to restrain said horizontal bracket on to said at least one cylindrical support protrusions;

so that when two of said mobile outrigger scaffolds are placed on adjacent structural members of a structure, and for each said mobile outrigger scaffold, said clamping mechanism is tightened snugly and said horizontal bracket is mounted on said cylindrical protrusions for each said mobile outrigger scaffold, and when deck planks are placed on said horizontal brackets, said mobile outrigger scaffolds permit movement exterior to a vertical structural member of a

structure on said deck planks.

5. A mobile outrigger scaffold using the vertical structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, comprising:

a deck support bracket having a horizontal bracket and an angled support bracket  
said horizontal bracket having a restraint end and a supporting end;

said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;

said angled support bracket attached to said horizontal bracket proximate to said restraint end of said horizontal bracket;

said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;

six rectangular plates having a flat side to be placed against a vertical structural member of a structure, three of said rectangular plates being upper rectangular plates and three of said rectangular plates being lower rectangular plates;

said plates having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

two of said upper plates and two of said lower plates being support plates to be placed on opposite sides of a vertical structural member, one of each of said upper and lower support plates to be placed interior to a vertical structural member and one of each of said upper and lower support plates to be placed on the exterior face of a vertical structural member;

said support plates having ends shaped in a C-fold parallel to said vertical plate axis;

said ends having C-folds being sufficiently far apart so that said flat side of said support plates having said C-folds can be placed against a vertical structural member;

at least one of said C-folds on at least one of said support plates having a clamping mechanism exerting pressure interior to said C-fold to pull said opposite C-fold snugly against a vertical structural member;

said two of said upper support plates and said two of said lower support plates each having at least one cylindrical plate holder protrusion projecting from at least one of said at least one of two ends shaped in a C-fold, said plate holder protrusions being perpendicular to said vertical plate axis, parallel to said flat side and perpendicular to said C-fold, and pointing in

correspondent directions when said support plates are disposed on such a vertical structural member;

said third of said upper three plates being an upper bracket plate and said third of said lower three plates being a lower bracket plate;

said bracket plates each having apertures to enable said bracket plates to be slid onto said at least one cylindrical plate holder protrusions snugly against each of said two said upper support plates and lower support plates when said support plates are placed on opposite sides of a vertical structure member, thereby orienting said bracket plates from the interior face to the exterior face of such a vertical structural member;

at least said bracket plates among all of such plates having at least one cylindrical bracket holder protrusion located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

said supporting end of said horizontal bracket having apertures to accommodate said at least one cylindrical bracket holder protrusion of said upper bracket plate;

said horizontally oriented end of said angled bracket having apertures to accommodate said at least one cylindrical bracket holder protrusion of said lower bracket plate;

at least one of said at least one cylindrical bracket holder protrusions on each said bracket plate having a securing means to restrain said horizontal bracket and said horizontally oriented bracket onto said protrusion;

at least one of said at least one cylindrical plate holder protrusions on each said support plate having a securing means to restrain said bracket plate;

so that when two of said mobile outrigger scaffolds are placed on adjacent structural members of a structure, and for each said mobile outrigger scaffold, said upper and lower support plates are placed one above the other on a structural member of a structure on opposite sides of such a structural member, said clamping mechanisms are tightened snugly, said bracket plates are mounted on said cylindrical plate support protrusions of said support plates, and each said deck support bracket is placed on each set of upper and lower support plates, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffolds permit movement exterior to a vertical structural member of a structure on deck planks set on said deck planks;

and further, so that upon mounting of one of said mobile outrigger scaffolds on a corner

structural member of a structure on the outside of such a structural member toward a third vertical structural member around such a corner with said support plate on the side of said corner structural member having similar cylindrical bracket protrusions as said bracket plates, and a third mobile outrigger scaffold having upper and lower support plates having similar cylindrical bracket protrusions as said bracket plates is mounted on such third vertical structural member around such a corner structural member, and a third deck support bracket is slid on said cylindrical protrusions of said bracket plate of said third mobile outrigger scaffold, and a fourth deck support bracket is slid on said cylindrical protrusions on said support plate toward said third structural member on the center of said three mobile outrigger scaffolds located around and on the corner of such a structure, upon placing of deck planks on said deck support brackets, said combination of mobile outrigger scaffolds permits movement exterior to vertical structural members of a structure around the outside of a corner of such a structure on such deck planks set on said deck support brackets.

6. A mobile outrigger scaffold using the vertical structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding mountable around the corner of a structure using first, second and third vertical structural members including the corner vertical structural member as the second vertical structural member, comprising:

at least four deck support brackets each having a horizontal bracket and an angled support bracket;

said horizontal brackets having a restraint end and a supporting end;

each said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;

each said angled support bracket of said deck support bracket attached to each said horizontal bracket of said same deck support bracket proximate to said restraint end of said each said horizontal bracket;

said angled support bracket of each said deck support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket of each said same deck support bracket;

ten rectangular plates having a flat side to be placed against a vertical structural member

of a structure, five of said rectangular plates being upper rectangular plates and five of said rectangular plates being lower rectangular plates;

said plates having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

two of said upper rectangular plates and two of said lower rectangular plates being support plates to be placed on opposite sides of a first vertical structural member adjacent to said corner vertical member, one of each of said upper and lower support plates to be placed interior to a vertical structural member and one of each of said upper and lower support plates to be placed on the exterior face of a vertical structural member;

another two of said upper rectangular plates and another two of said lower rectangular plates being support plates to be placed on opposite sides of said second corner vertical structural member, one of each of said upper and lower support plates on said corner vertical structural member to be placed interior to said corner vertical structural member and one of each of said upper and lower support plates to be placed on the exterior face of said corner vertical structural member;

another one of said upper support plates and another one of said lower plates being support plates to be placed on said third vertical structural member, oriented from the interior edge to the exterior edge of such a vertical structural member;

said support plates having ends shaped in a C-fold parallel to said vertical plate axis;

said ends having C-folds being sufficiently far apart so that said flat side of said support plates having said C-folds can be placed against a vertical structural member;

at least one of said C-folds on at least one of said support plates on each said vertical structural member having a clamping mechanism exerting pressure interior to said C-fold to pull said opposite C-fold snugly against each said vertical structural member;

said upper support plates and said lower support plates for at least said first and second vertical structural members each having at least one cylindrical plate holder protrusion projecting from at least one of said at least one of two ends shaped in a C-fold, said plate holder protrusions being perpendicular to said vertical plate axis, parallel to said flat side and perpendicular to said C-fold, and pointing in correspondent directions for each lower and upper support plate when said support plates are disposed on such a vertical structural member;

four rectangular bracket plates having a flat side to be placed toward a vertical structural



member of a structure, two of said rectangular bracket plates being upper bracket plates and two of said rectangular bracket plates being lower bracket plates;

said bracket plates each having apertures to enable said bracket plates to be slid onto said at least one cylindrical plate holder protrusions snugly against each of said two said upper support plates and lower support plates when said support plates are placed on opposite sides of a vertical structure member, thereby orienting said bracket plates from the interior face to the exterior face of such a vertical structural member;

at least said bracket plates among all of such plates having at least one cylindrical bracket holder protrusion located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

at least said upper and lower support plates for said interior face of said corner structural member having cylindrical bracket holder protrusions located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

said supporting end of said horizontal bracket having apertures to accommodate said at least one cylindrical bracket holder protrusion of said upper bracket plate and to accommodate said at least one cylindrical bracket holder protrusion of said upper support plate on said interior face of said corner vertical structural member;

said horizontally oriented end of said angled bracket having apertures to accommodate said at least one cylindrical bracket holder protrusion of said lower bracket plate and to accommodate said at least one cylindrical bracket holder protrusion of said lower support plate on said interior face of said corner vertical structural member;

at least one of said at least one cylindrical bracket holder protrusions on each said bracket plate and each said support plate having a securing means to restrain said horizontal bracket and said horizontally oriented bracket onto said protrusion;

at least one of said at least one cylindrical plate holder protrusions on each said support plate having a securing means to restrain said bracket plate;

so that when said upper plates and said lower plates are mounted on parallel lines on said three adjacent structural members of a structure, said upper support plates and said lower support plates placed one above the other on a structural member of a structure on opposite sides of such a structural member, said clamping mechanisms are tightened snugly, said bracket plates are

mounted on said cylindrical plate support protrusions of said support plates, and said deck support brackets are placed on each said upper and lower support plate on each vertical structural member, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffolds permit movement exterior to vertical structural members of a structure on said deck planks;

and further, so that if said three mobile outrigger scaffolds are located around and on the corner of such a structure, upon placing of deck planks on said deck support brackets, said combination of mobile outrigger scaffolds permits movement exterior to vertical structural members of a structure around the outside of a corner of such a structure on such deck planks set on said deck support brackets.

1. A mobile outrigger scaffold using the vertical structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, said vertical structural members having a depth and width, comprising:

a deck support bracket having a horizontal bracket and an angled support bracket

said horizontal bracket having a restraint end and a supporting end;

said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;

said angled support bracket attached to said horizontal bracket proximate to said restraint end of said horizontal bracket;

said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;

at least one bracket support, being a first bracket support, for each of at least two vertical structure members having a rectangular plate having a flat side to be placed against a vertical structural member of a structure,

said rectangular plate having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

said rectangular plate having each end shaped in at least one 90 degree fold, thus constituting at least an L-fold on each end, said fold being approximately parallel to said vertical plate axis;

at least one of said 90 degree folds on said one end having a clamping mechanism

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said at least one bracket support having at least one cylindrical bracket holder protrusion projecting from said rectangular plate opposite said flat side protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

said horizontally oriented end of said angled bracket having apertures to accommodate a cylindrical bracket holder protrusion from a second bracket support situated below said first bracket support;

so that when two of said mobile outrigger scaffolds are placed on adjacent structural members of a structure, and for each said mobile outrigger scaffold, said upper and lower bracket supports are placed one above the other on a structural member of a structure, when said clamping mechanisms are tightened snugly, and when each said deck support bracket is placed on sufficient bracket supports to prevent rotation, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffolds permit movement exterior to a vertical structural member of a structure on deck planks;

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structural member, and when each said deck support bracket is placed on sufficient bracket supports on said third vertical structural member, to prevent rotation, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffolds permit movement exterior to vertical structural members of a structure on deck planks around said corner.

8. <sup>TR</sup>  
<sup>2</sup> A mobile outrigger scaffold according to claim 7, further comprising:  
said at least one bracket support having at least one cylindrical plate holder protrusion projecting from said two ends away from said flat side, said plate holder protrusions being perpendicular to said vertical plate axis, perpendicular to said flat side and pointing in correspondent directions when said support plates are disposed on such a vertical structural member;

and a rectangular safety plate having apertures located on the ends of said safety plate to enable mounting on said at least one cylindrical plate holder protrusion on each end of said bracket support on said cylindrical plate holder protrusions.

9. A mobile outrigger scaffold using horizontal structure members for construction and maintenance of a structure without the necessity of ground-up scaffolding, comprising:  
a deck support bracket having a horizontal bracket and an angled support bracket  
said horizontal bracket having a restraint end and a supporting end;  
said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;  
said angled support bracket attached to said horizontal bracket proximate to said restraint end of said horizontal bracket;  
said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;

6 plates  
six rectangular plates having a flat side to be placed against a horizontal structural member of a structure;

four of said plates having a vertical plate axis to be parallel to said plate and perpendicular to a horizontal structural member against which said plate is to be placed;  
of said four plates, two of said plates being arbitrarily designated left side plates and two

of said plates arbitrarily being designated right side plates, all four plates being support plates to be placed on opposite sides of a horizontal structural member, one of each of said upper and lower support plates to be placed interior to a horizontal structural member and one of each of said upper and lower support plates to be placed on the exterior face of a horizontal structural member;

said support plates having ends shaped in a C-fold parallel to said vertical plate axis;

said ends having C-folds being sufficiently far apart so that said flat side of said support plates having said C-folds can be placed against a horizontal structural member;

at least one of said C-folds on at least one of said support plates having a clamping mechanism exerting pressure interior to said C-fold to pull said opposite C-fold snugly against a horizontal structural member;

said two of said left side support plates and said two of said right side support plates each having at least one cylindrical plate holder protrusion projecting from at least one of said at least one of two ends shaped in a C-fold, said plate holder protrusions being perpendicular to said vertical plate axis, parallel to said flat side and perpendicular to said C-fold, and pointing in correspondent directions when said support plates are disposed on such a horizontal structural member;

said remaining two of said six plates being bracket plates;

said bracket plates each having apertures to enable said bracket plates to be slid onto said at least one cylindrical plate holder protrusions snugly against each of said two said upper support plates and lower support plates when said support plates are placed on opposite sides of a vertical structure member, thereby orienting said bracket plates from the interior face to the exterior face of such a vertical structural member;

at least said bracket plates among all of such plates having at least one cylindrical bracket holder protrusion located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line perpendicular to said horizontal structural member;

said supporting end of said horizontal bracket having apertures to accommodate said at least one cylindrical bracket holder protrusion of said bracket plates;

said horizontally oriented end of said angled bracket having apertures to accommodate said at least one cylindrical bracket holder protrusion of said bracket plates;

at least one of said at least one cylindrical bracket holder protrusions on each said bracket

plate having a securing means to restrain said horizontal bracket and said horizontally oriented bracket onto said cylindrical bracket holder protrusion;

at least one of said at least one cylindrical plate holder protrusions on each said support plate having a securing means to restrain said bracket plate;

so that when two of said mobile outrigger scaffolds are placed on structural members of a structure, and for each said mobile outrigger scaffold, said support plates are placed on at least one structural member of a structure on opposite sides of such a structural member, said clamping mechanisms are tightened snugly, said bracket plates are mounted on said cylindrical plate support protrusions of said support plates, and each said horizontal bracket is placed on each said lower support plate, and when deck planks are placed on said horizontal brackets, said mobile outrigger scaffolds permit movement exterior to a vertical structural member of a structure on deck planks set on said deck planks;

and further, so that upon mounting of one of said mobile outrigger scaffolds on a corner structural member of a structure on the outside of such a structural member toward a third vertical structural member around such a corner with said support plate on the side of said corner structural member having similar cylindrical bracket protrusions as said bracket plates, and a third mobile outrigger scaffold having upper and lower support plates having similar cylindrical bracket protrusions as said bracket plates is mounted on such third vertical structural member around such a corner structural member, and a third deck support bracket is slid on said cylindrical protrusions of said bracket plate of said third mobile outrigger scaffold, and a fourth deck support bracket is slid on said cylindrical protrusions on said support plate toward said third structural member on the center of said three mobile outrigger scaffolds located around and on the corner of such a structure, upon placing of deck planks on said deck support brackets, said combination of mobile outrigger scaffolds permits movement exterior to vertical structural members of a structure around the outside of a corner of such a structure on such deck planks set on said deck support brackets.

10. A mobile outrigger scaffold using horizontal structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, comprising:

a deck support bracket having a horizontal bracket and an angled support bracket

said horizontal bracket having a restraint end and a supporting end;

said supporting end being shaped to have a straight end perpendicularly oriented to said horizontal bracket;

said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;

said angled support bracket attached to said horizontal bracket proximate to said restraint end of said horizontal bracket;

said angled support bracket having a straight end perpendicularly oriented to said supporting end of said horizontal bracket;

six rectangular plates having a flat side to be placed against a horizontal structural member of a structure, three of said rectangular plates being upper rectangular plates and three of said rectangular plates being lower rectangular plates;

four of said plates having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

of said four plates, two of said upper plates and two of said lower plates being support plates to be placed on opposite sides of a horizontal structural member, one of each of said upper and lower support plates to be placed interior to a horizontal structural member and one of each of said upper and lower support plates to be placed on the horizontal face of a horizontal structural member;

said support plates having ends shaped in a C-fold parallel to said vertical plate axis;

said ends having C-folds being sufficiently far apart so that said flat side of said support plates having said C-folds can be placed against a horizontal structural member;

at least one of said C-folds on at least one of said support plates having a clamping mechanism exerting pressure interior to said C-fold to pull said opposite C-fold snugly against a horizontal structural member;

said two of said upper support plates and said two of said lower support plates each having at least one cylindrical plate holder protrusion projecting from at least one of said at least one of two ends shaped in a C-fold, said plate holder protrusions being perpendicular to said vertical plate axis, parallel to said flat side and perpendicular to said C-fold, and pointing in correspondent directions when said support plates are disposed on such a horizontal structural member;

said third of said upper three plates being an upper bracket plate and said third of said lower three plates being a lower bracket plate;

said bracket plates each having apertures to enable said bracket plates to be slid onto said at least one cylindrical plate holder protrusions snugly against each of said two said upper support plates and lower support plates when said support plates are placed on opposite sides of a horizontal structure member, thereby orienting said bracket plates from the interior face to the exterior face of such a horizontal structural member;

at least said bracket plates among all of such plates having at least one cylindrical bracket holder protrusion located opposite said flat side of said plate, protruding perpendicularly to said plate, and located on a line parallel to said vertical plate axis of said support plates;

said supporting end of said horizontal bracket having apertures to accommodate said at least one cylindrical bracket holder protrusion of said upper bracket plate;

said horizontally oriented end of said angled bracket having apertures to accommodate said at least one cylindrical bracket holder protrusion of said lower bracket plate;

at least one of said at least one cylindrical bracket holder protrusions on each said bracket plate having a securing means to restrain said horizontal bracket and said horizontally oriented bracket onto said protrusion;

at least one of said at least one cylindrical plate holder protrusions on each said support plate having a securing means to restrain said bracket plate;

so that when two of said mobile outrigger scaffolds are placed on adjacent structural members of a structure, and for each said mobile outrigger scaffold, said upper and lower support plates are placed on a horizontal structural member of a structure on opposite sides of such a structural member, said clamping mechanisms are tightened snugly, said bracket plates are mounted on said cylindrical plate support protrusions of said support plates, and each said deck support bracket is mounted on each set of support plates, and when deck planks are placed on said horizontal brackets, said mobile outrigger scaffolds permit movement exterior to a horizontal structural member of a structure on deck planks set on said deck planks;

and further, so that upon mounting of one of said mobile outrigger scaffolds on a corner structural member of a structure on the outside of such a structural member toward a third structural member around such a corner with said support plate on the side of said corner structural member having similar cylindrical bracket protrusions as said bracket plates, and a



third mobile outrigger scaffold having support plates having similar cylindrical bracket protrusions as said bracket plates is mounted on such third vertical structural member around such a corner structural member, and a third deck support bracket is slid on said cylindrical protrusions of said bracket plate of said third mobile outrigger scaffold, and a fourth deck support bracket is slid on said cylindrical protrusions on said support plate toward said third structural member on the center of said three mobile outrigger scaffolds located around and on the corner of such a structure, upon placing of deck planks on said deck support brackets, said combination of mobile outrigger scaffolds permits movement exterior to horizontal structural members of a structure around the outside of a corner of such a structure on such deck planks set on said deck support brackets.

11. A mobile outrigger scaffold using horizontal structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, mountable adjacent to and around the corner of said structure, said horizontal structural members having a depth and width, comprising:

a deck support bracket having a horizontal bracket and an angled support bracket  
said horizontal bracket having a restraint end and a supporting end;

said horizontal bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end;

said angled support bracket attached to said horizontal bracket proximate to said restraint end of said horizontal bracket;

said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;

at least one bracket support, being a first bracket support having a rectangular plate having a flat side to be placed against a horizontal structural member of a structure,

said rectangular plate having a horizontal plate axis to be parallel to said plate and parallel to a horizontal structural member against which said plate is to be placed;

said rectangular plate having each end shaped in at least one 90 degree fold, thus constituting at least an L-fold on each end, said fold being approximately parallel to said horizontal plate axis;

at least one of said 90 degree folds on said one end having a clamping mechanism

exerting pressure interior to said at least one 90 degree fold to pull said opposite at least one 90 degree fold snugly against a horizontal structural member;

said ends having said at least one 90 degree fold being sufficiently far apart so that said flat side of said rectangular plate can be placed against a horizontal structural member, so that one end can also be placed against said same horizontal structural member and so that said opposite end with said clamping mechanism exerting pressure interior to said at least one 90 degree fold of said opposite end can be placed against said same horizontal structural member;

said at least one bracket support having at least one cylindrical bracket holder protrusion projecting from said rectangular plate opposite said flat side protruding perpendicularly to said plate, and located on a line parallel to said horizontal plate axis;

said supporting end of said horizontal bracket having apertures to accommodate said at least one cylindrical bracket holder protrusion of said upper bracket plate when said bracket support is situated on said horizontal structural member generally from the inside to the exterior of said structure;

said horizontally oriented end of said angled bracket having apertures to accommodate a cylindrical bracket holder protrusion from a second bracket support situated below said first bracket support;

at least one of said at least one cylindrical bracket holder protrusions on each said bracket plate having a securing means to restrain said horizontal onto at least one of said cylindrical bracket holder protrusions;

so that when at least two of bracket supports and said brackets are placed in adjacent horizontal positions on horizontal structural members of a structure, when said clamping mechanisms are tightened snugly, and when each said bracket support has sufficient cylindrical protrusions to prevent rotation, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffolds permit movement exterior to a horizontal structural member of a structure on said deck planks.

12. <sup>The</sup> A mobile outrigger scaffold according to claim 11, further comprising:  
<sup>n</sup> said at least one bracket support having at least one cylindrical plate holder protrusion projecting from said two ends away from said flat side, said plate holder protrusions being parallel to said horizontal plate axis, perpendicular to said flat side and pointing in correspondent

directions when said support plates are disposed on such a horizontal structural member;  
and a rectangular safety plate having apertures located on the ends of said safety plate to enable mounting on said at least one cylindrical plate holder protrusion on each end of said bracket support on said cylindrical plate holder protrusions.

13. A method of manufacturing mobile outrigger scaffold mountable on vertical structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding comprising the following steps:

penetrating a horizontal bracket also referred to as a deck support bracket having a restraint end and a supporting end with apertures toward said supporting end;

attaching a restraint means onto said restraint end;

constructing a flat plate having opposite ends both shaped in a C-fold;

affixing cylindrical protrusions perpendicular to the flat surface of said flat plate parallel to a line between said opposite ends, said protrusions set to correspond to the distance between said apertures;

mounting a clamping mechanism for exerting pressure interior to at least one of said opposite C-folds

so that said flat plate may be placed on a vertical structural member of a structure, said clamping mechanism may be tightened and said horizontal bracket may be disposed on said cylindrical protrusions through said apertures thereby furnishing a removable outrigger on which the end of a deck plank may be placed to permit movement exterior to a vertical structural member of a structure.

14. A method of manufacturing mobile outrigger scaffold using the vertical structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding comprising the following steps:

combining a horizontal bracket and an angled support bracket into a deck support bracket, said horizontal bracket having a restraint end and a supporting end, and said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;

penetrating said horizontal bracket with apertures toward said supporting end, and

penetrating said horizontally oriented end of said angled support bracket with similar apertures;  
attaching a restraint means onto said restraint end;  
constructing two flat plates each having opposite ends both shaped in a C-fold;  
affixing cylindrical protrusions perpendicular to the flat surface of said flat plates parallel to a line between each said set of opposite ends, said protrusions set to correspond to the distance between said apertures;  
mounting a clamping mechanism for exerting pressure interior to at least one of said opposite C-folds on each said flat plate;  
so that said flat plates may be placed on a vertical structural member of a structure one above the other to correspond to said apertures in said supporting end and said horizontally oriented end of said brackets, said clamping mechanism may be tightened and said deck support bracket may be disposed on said cylindrical protrusions through said apertures thereby furnishing a removable outrigger on which the end of a deck plank may be placed to permit movement exterior to a vertical structural member of a structure.

15. A method of manufacturing mobile outrigger scaffold using the vertical structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding comprising the following steps:  
penetrating a horizontal bracket also known referred to as a deck support bracket having a restraint end and a supporting end with apertures toward said supporting end;  
attaching a restraint means onto said restraint end;  
constructing two flat support plates having opposite ends both shaped in a C-fold;  
mounting a clamping mechanism for exerting pressure interior to at least one of said opposite C-folds;  
affixing parallel cylindrical plate holder protrusions on at least one of said opposite ends of each said flat support plate parallel to a line between said opposite ends;  
penetrating a third flat support plate with two sets of apertures, each set of apertures being set to accommodate said parallel cylindrical plate holder protrusions;  
affixing cylindrical deck support protrusions perpendicular to the flat surface of said third flat deck support plate on a line perpendicular to a line between each set of said two sets of apertures, said cylindrical deck support protrusions affixed to accommodate said apertures on

said horizontal bracket;

so that said flat support plates may be placed on opposite faces of a vertical structural member of a structure with an outward facing face, said clamping mechanisms may be tightened on said flat support plates, said deck support plate may be mounted on said parallel cylindrical plate holder protrusions of said flat support plates through said apertures of said deck support plate, thereby surrounding said vertical structural member on three sides, and said horizontal bracket may be disposed on said cylindrical deck support protrusions of said deck support plate through said apertures thereby furnishing a removable outrigger on which the end of a deck plank may be placed to permit movement exterior to a vertical structural member of a structure.

16. A method of manufacturing mobile outrigger scaffold using the vertical structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding comprising the following steps:

combining a horizontal bracket and an angled support bracket into a deck support bracket, said horizontal bracket having a restraint end and a supporting end, and said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;

penetrating said horizontal bracket with apertures toward said supporting end, and penetrating said horizontally oriented end of said angled support bracket with similar apertures;

attaching a restraint means onto said restraint end;

constructing four flat support plates each having opposite ends both shaped in a C-fold; affixing parallel cylindrical plate holder protrusions on at least one of said opposite ends of each said flat support plate parallel to a line between said opposite ends;

mounting a clamping mechanism for exerting pressure interior to at least one of said opposite C-folds on each said flat support plate;

penetrating fifth and sixth flat deck support plates each with two sets of apertures, each set of apertures being set to accommodate said parallel cylindrical plate holder protrusions;

affixing cylindrical deck support protrusions perpendicular to the flat surface of said fifth and sixth deck support plates on a line perpendicular to a line between each set of said two sets of apertures on each deck support plate, said cylindrical deck support protrusions affixed to accommodate said apertures on said deck support bracket;

affixing cylindrical plate support protrusions perpendicular to the flat surface of said flat support plates parallel to a line between each said set of opposite ends, said protrusions set to correspond to the distance between each set of said apertures on said fifth and sixth flat deck support plates;

so that two of said four flat support plates may be placed one above the other on one face of a vertical structural member of a structure with an outward facing face, and the other two of said four flat support plates may be placed one above the other on the opposite face of said vertical structural member, said clamping mechanisms may be tightened on said flat support plates, said fifth deck support plate may be mounted on said parallel cylindrical plate holder protrusions of said upper flat support plates through said apertures of said deck support plates and said sixth deck support plate may be mounted on said parallel cylindrical plate holder protrusion of said lower flat support plates through said apertures of said deck support plates, thereby surrounding said vertical structural member on three sides with an upper and lower set of plates, and said horizontal bracket of said deck support bracket may be disposed on said cylindrical deck support protrusions of said fifth deck support plate through said apertures of said horizontal bracket, and said angled support bracket of said deck support bracket may be disposed on said cylindrical deck support protrusions of said sixth deck support plate through said apertures of said angled support bracket, thereby furnishing a removable outrigger on which the end of a deck plank may be placed to permit movement exterior to a vertical structural member of a structure.

17. A method of manufacturing a mobile outrigger scaffold using the vertical structure members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding comprising the following steps:

combining a horizontal bracket and an angled support bracket into a first deck support bracket, said horizontal bracket having a restraint end and a supporting end, and said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;

penetrating said horizontal bracket with apertures toward said supporting end, and penetrating said horizontally oriented end of said angled support bracket with similar apertures;

attaching a restraint means onto said restraint end;

creating a like second deck support bracket;  
constructing four flat support plates each having opposite ends both shaped in a C-fold;  
affixing parallel cylindrical plate holder protrusions on at least one of said opposite ends  
of each said flat support plate parallel to a line between said opposite ends;

mounting a clamping mechanism for exerting pressure interior to at least one of said  
opposite C-folds on each said flat support plate;

affixing cylindrical deck support protrusions perpendicular to the flat surface of at least  
one set of two of said flat support plates on a line perpendicular to a line between said C-folds,  
said cylindrical deck support protrusions affixed to accommodate said apertures on at least said  
second deck support bracket;

penetrating fifth and sixth flat deck support plates each with two sets of apertures, each  
set of apertures being set to accommodate said parallel cylindrical plate holder protrusions;

affixing cylindrical deck support protrusions perpendicular to the flat surface of said fifth  
and sixth deck support plates on a line perpendicular to a line between each set of said two sets  
of apertures on each deck support plate, said cylindrical deck support protrusions affixed to  
accommodate said apertures on at least said first deck support bracket;

affixing cylindrical plate support protrusions perpendicular to the flat surface of said flat  
support plates parallel to a line between each said set of opposite ends, said protrusions set to  
correspond to the distance between each set of said apertures on said fifth and sixth flat deck  
support plates;

so that two of said four flat support plates may be placed one above the other on one face  
of a vertical structural member of a structure with an outward facing face, and the other two of  
said four flat support plates may be placed one above the other on the opposite and inward face  
of said vertical structural member, said clamping mechanisms may be tightened on said flat  
support plates, said fifth deck support plate may be mounted on said parallel cylindrical plate  
holder protrusions of said upper flat support plates through said apertures of said deck support  
plates and said sixth deck support plate may be mounted on said parallel cylindrical plate holder  
protrusion of said lower flat support plates through said apertures of said deck support plates,  
thereby surrounding said vertical structural member on three sides with an upper and lower set of  
plates, and said horizontal bracket of said first deck support bracket may be disposed on said  
cylindrical deck support protrusions of said fifth deck support plate through said apertures of said

horizontal bracket, and said angled support bracket of said deck support bracket may be disposed on said cylindrical deck support protrusions of said sixth deck support plate through said apertures of said angled support bracket,

and further so that, for a corner vertical structural member, said horizontal bracket of said second deck support bracket may be disposed on said cylindrical deck support protrusions of said upper deck support plate on said inward face of said vertical structural member away from a structure corner through said apertures of said horizontal bracket, and said angled support bracket of said second deck support bracket may be disposed on said cylindrical deck support protrusions of said lower deck support plate on said inward face of said vertical structural member through said apertures of said angled support bracket

thereby furnishing a first removable outrigger on which the end of a deck plank may be placed to permit movement exterior to a vertical structural member of a structure, and thereby furnishing a second removable outrigger on which the end of a deck plank may be placed to permit movement both exterior to and around the corner of a vertical structural member of a structure.

18. A method of holding a deck plank from vertical structural members of a structure to permit exterior movement of personnel and exterior disposition of equipment without ground-up scaffolding comprising the following steps:

disposing a first rectangular plate having a flat side to be placed against a vertical structural member of a structure oriented from the interior edge to the exterior edge of such a vertical structural member;

similarly disposing a second and similar rectangular plate on an adjacent vertical structural member of a structure;

each said plate having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

each said plate having ends shaped in a C-fold parallel to said vertical plate axis;

each said set of C-folds on each plate being sufficiently far apart so that said flat side of said plates having said C-folds can be placed against a vertical structural member;

each said plate having two cylindrical protrusions on each said plate located opposite said flat side of each said plate, protruding perpendicularly to each said plate, and located on a line



perpendicular to said vertical plate axis;

each said plate having a clamping mechanism attachable to at least one of said C-folds on each plate to exert pressure interior to said C-fold;

tightening said clamping mechanism to pull said opposite C-fold snugly against a vertical structural member;

mounting a horizontal bracket also referred to as a deck support bracket on said two cylindrical protrusions on each said plate, each said horizontal bracket having a restraint end and a supporting end penetrated by apertures in said restraint end to accommodate said cylindrical protrusions, and each further having a restraint means at each said restraint end to prevent deck planks from sliding over said restraint end;

so that deck planks can be placed on said horizontal brackets for movement and disposition of personnel and equipment exterior to a structure without ground-up scaffolding.

19. A method of holding a deck support from vertical structural members of a structure to permit exterior movement of personnel and exterior disposition of equipment without ground-up scaffolding comprising the following steps:

disposing a first rectangular plate having a flat side to be placed against a vertical structural member of a structure oriented from the interior edge to the exterior edge of such a vertical structural member;

similarly disposing a second and similar rectangular plate on an adjacent vertical structural member of a structure on an approximately horizontal line to said first rectangular plate;

similarly disposing lower third and fourth similar rectangular plates below said first and second plates;

each said plate having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

each said plate having ends shaped in a C-fold parallel to said vertical plate axis;

each said set of C-folds on each plate being sufficiently far apart so that said flat side of said plates having said C-folds can be placed against a vertical structural member;

each said plate having two cylindrical protrusions on each said plate located opposite said

flat side of each said plate, protruding perpendicularly to each said plate, and located on a line perpendicular to said vertical plate axis;

each said plate having a clamping mechanism attachable to at least one of said C-folds on each plate to exert pressure interior to said C-fold;

tightening said clamping mechanism to pull said opposite C-fold snugly against a vertical structural member;

mounting a deck support bracket on said plates on said two cylindrical protrusions on each said plate, on each vertical structural member, each said deck support bracket horizontal bracket,

each said deck support bracket having a horizontal bracket and an angled bracket, each said horizontal bracket having a restraint end and a supporting end penetrated by apertures in said restraint end to accommodate said cylindrical protrusions, and each further having a restraint means at each said restraint end to prevent deck planks from sliding over said restraint end,

said angled support bracket attached to said horizontal bracket proximate to said restraint end of said horizontal bracket;

said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;

so that deck supports can be placed on said horizontal brackets for movement and disposition of personnel and equipment exterior to a structure without ground-up scaffolding.

20. A method of holding a deck plank from vertical structural members of a structure to permit exterior movement of personnel and exterior disposition of equipment without ground-up scaffolding comprising the following steps:

disposing a first rectangular upper support plate having a flat side against a vertical structural member of a structure oriented from edge to the edge of the exterior face of such a vertical structural member;

similarly disposing a second and similar upper support plate on an adjacent vertical structural member of a structure on an approximately horizontal line to said first rectangular plate;

similarly disposing lower third and fourth similar lower support plates below said first

and second plates;

similarly disposing fifth through eighth similar upper and lower support plates on said vertical structural members opposite said first through fourth upper and lower support plates;

each said support plate having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

each said plate having ends shaped in a C-fold parallel to said vertical plate axis;

each said set of C-folds on each plate being sufficiently far apart so that said flat side of said plates having said C-folds can be placed against a vertical structural member;

each said plate having at least one cylindrical plate holder protrusions on each said plate located opposite said flat side of each said plate, protruding parallel to each said plate so each set of plates on each set of vertical structural members have unidirectional parallel cylindrical plate holder protrusions located on a line perpendicular to said vertical plate axes;

each said plate having a clamping mechanism attachable to at least one of said C-folds on each plate to exert pressure interior to said C-fold;

tightening said clamping mechanism to pull said opposite C-fold snugly against a vertical structural member;

disposing four bracket plates having a flat side and having apertures to accommodate said cylindrical plate holder protrusions on said support plates;

each said bracket plate having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member against which said plate is to be placed;

each said bracket plate having two cylindrical protrusions on each said plate located opposite said flat side of each said plate, protruding perpendicularly to each said plate, and located on a line perpendicular to said vertical plate axis;

mounting a deck support bracket on said plates on said two cylindrical protrusions on each said plate, on each vertical structural member, each said deck support bracket horizontal bracket,

each said deck support bracket having a horizontal bracket and an angled bracket, each said horizontal bracket having a restraint end and a supporting end penetrated by apertures in said restraint end to accommodate said cylindrical protrusions, and each further having a restraint means at each said restraint end to prevent deck planks from sliding over said restraint end,

said angled support bracket attached to said horizontal bracket proximate to said restraint

end of said horizontal bracket;

said angled support bracket having a horizontally oriented end parallel to said supporting end of said horizontal bracket;

so that deck planks can be placed on said horizontal brackets for movement and disposition of personnel and equipment exterior to a structure without ground-up scaffolding.

21. The method of holding a deck support from vertical structural members of a structure to permit exterior movement of personnel and exterior disposition of equipment without ground-up scaffolding, according to claim 20, further comprising:

disposing said support plates on a corner vertical structural member and on an adjacent vertical structural member, said latter member having its face facing outwardly roughly parallel to an exterior side of said structure, and said bracket plates facing said adjacent vertical structural member;

disposing at least one cylindrical protrusion on each said support plate, said cylindrical protrusion being located opposite said flat side of each said support plate, protruding perpendicularly to each said plate, and located on a line perpendicular to said vertical plate axis;

disposing said support plates having said at least one cylindrical protrusion on an interior side of a corner vertical structural member of a structure;

disposing two C-fold support plates, one above the other, oriented from the interior edge to the exterior edge of such a vertical structural member, said C-fold support plates having a flat side;

said C-fold support plates having a vertical plate axis to be parallel to said plate and parallel to a vertical structural member having edges against which said plate is to be placed,

said C-fold support plates having at least one parallel end parallel to said vertical plate axis shaped with at least a 90 degree fold parallel to said vertical plate axis and an opposite shaped parallel end which is shaped with at least a 90 degree fold,

said parallel ends being sufficiently far apart so that said flat side of said support plates can be placed against such a vertical structural member with said parallel ends partially around said edges of said vertical structural member;

at least said opposite parallel end having at least a 90 degree fold having a clamping mechanism which can be fit onto said edge of said vertical structural member;

tightening said clamping mechanism to exert pressure interior to said shaped parallel end

to pull said parallel ends of each said plate snugly against a vertical structural member;

said C-fold support plates having two cylindrical support protrusions located opposite said flat side of said plate and located opposite said folds on at least one of said parallel ends protruding perpendicularly to said plate, and located on a line perpendicular to said vertical plate axis;

disposing a third deck support bracket having apertures to accommodate said cylindrical support protrusions on said C-fold support plates;

said protrusions having a securing means to restrain said horizontal bracket and said horizontally oriented bracket;

disposing a fourth deck support bracket on said remaining support plate on said corner vertical member;

so that deck supports can be placed on said horizontal brackets for movement and disposition of personnel and equipment exterior to a structure around a corner vertical member of a structure without ground-up scaffolding.

22. A mobile outrigger scaffold using the structural members for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding, comprising:

at least two deck support brackets having a horizontal component for supporting a deck plank;

each said deck support bracket having at least one restraint to prevent deck planks from sliding over said restraint end;

at least  $(n)$  rectangular plates for each deck support bracket,  $n$  being equal to or greater than one, each rectangular plate having  $(m)$  means for retaining said bracket,  $(m)$  being greater than or equal to one,  $(m+n)$  being equal to at least two, said  $(m)$  means for retaining protruding perpendicularly to said plate;

each said rectangular plate having a flat side to be mounted adjacent to a structural member;

said at least one means for retaining said bracket being positioned to maintain said horizontal component for supporting a deck plank in a horizontal position;

said at least one means for retaining said bracket having a first means for securing said

bracket; *to what*

each said at least two deck support brackets having means for temporarily mounting each said bracket to said means for retaining on each said at least one rectangular plate;

said rectangular plate having a second means for temporarily mounting said plate to a structural member;

said second means for temporarily mounting said plate having at least two folds of at least 90 degrees;

said second means for temporarily mounting said n plates to a structural member having a means for clamping said plate to a structural member;

so that when said deck support plates are placed on adjacent vertical structural members of a structure, and said means for clamping said plate to a structural member are tightened snugly, when said deck support brackets are placed on said means for retaining, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffold permits movement exterior to a vertical structural member of a structure on said deck planks;

*and further,* so that when said deck support plates are placed horizontally adjacent on structural members of a structure, and said means for clamping said plate to a structural member are tightened snugly, when said deck support brackets are placed on said means for retaining, and when deck planks are placed on said deck support brackets, said mobile outrigger scaffold permits movement exterior to a vertical structural member of a structure on said deck planks.

23. The mobile outrigger scaffold according to claim 22 for mounting on three adjacent vertical columns, one of which columns is a corner column, further comprising:

*4 deck plates*  
at least four deck support brackets;

all rectangular plates being designated as support plates,  
said at least (n) rectangular plates on said corner column being designated corner support plates;

said means for temporarily mounting said plate to a structural member having two ends;

said corner support plates each having at least one means for retaining projecting from at least one of said at least one of two ends having a third means for temporarily mounting said plate, said third means for retaining on each corner support plate being parallel to said flat side and protruding from said end perpendicular to said second means for temporarily mounting, and

perpendicular to said first means for temporarily mounting said bracket, and each of said at least one third means for retaining and supporting pointing in a similar direction when said support plates are disposed adjacently on at least one vertical structural member;

112 <sup>112</sup> another  $n/2$ ,  $n/2$  being at least one rectangular plates being designated bracket plates and each having at least one, and if  $n=1$ , not less than 2, means for retaining said bracket protruding perpendicularly to said plate;

said  $n/2$  rectangular plates having means for mounting to said third means for retaining on said support plates;

at least one means for retaining said bracket having a means for securing said bracket;

so that when at least one set of support plates of said mobile outrigger scaffolds are placed on adjacent vertical structural members of a structure, and said means for clamping said plate to a vertical structural member are tightened snugly, when said deck support brackets are placed on said means for retaining said bracket on said bracket plates, and when deck planks are placed on said horizontal brackets, and when said at least one set of two support plates and a bracket plate is placed on a corner vertical structural member with one support plate and one bracket plate facing the interior of the structure, and at least one support plate is placed facing said one support plate facing the interior of the structure on an adjacent vertical structural member, and another set of two support plates and one bracket plate is placed on an adjacent vertical structural member facing said bracket plate, and deck support brackets are placed on said bracket plates and on said facing support plates, and deck planks are placed on said brackets, said mobile outrigger scaffolds permit movement exterior to a vertical structural member of a structure and around a corner of a structure on said deck planks.

24. A method of manufacturing a support attachable to a structural member of a structure for a mobile outrigger scaffold having a deck support bracket for floor-by-floor construction and maintenance of a structure without the necessity of ground-up scaffolding comprising the following steps:

folding the ends of a flat plate at least once to create an end-fold on each end of said flat plate, but not making more than one further folding on each such end, the first folding being 90 degrees, and any further folding being approximately 90 degrees, thereby resulting in each end being at least an L-fold and at most a C-fold;

affixing cylindrical protrusions on a line perpendicular to said folds protruding perpendicular to the flat surface of said flat plate parallel to a line between said opposite ends;

mounting a clamping mechanism for exerting pressure interior to at least one of said opposite end folds;

mounting at least one reinforcement plate on one of said opposite end folds adjacent to said flat plate for reinforcing at least said first 90 degree fold;

disposing at least one ear tab on said clamping mechanism for alignment purposes adjacent to where said reinforcement plate is mounted adjacent to said flat plate;

cutting out a corner of each said reinforcement plate away from where said at least one reinforcement plate is joined to said 90 degree fold and said flat plate to accommodate said at least one ear tab;

so that said flat plate may be placed adjacent to a structural member of a structure, said clamping mechanism may be tightened and a deck support bracket having a restraint end with restraint means and a supporting end may be disposed on said cylindrical protrusions through apertures on said deck support bracket thereby furnishing a removable outrigger on which the end of a deck plank may be placed to permit movement exterior to a vertical structural member of a structure.

25. The mobile outrigger scaffold according to claim 24, further comprising:

said deck support bracket having a restraint means at said restraint end to prevent deck planks from sliding over said restraint end.

26. The clamping mechanism according to claims 1-25, further comprising:

said clamping mechanism having at least one tab on a clamping mechanism face, said face being placed adjacent to and placing pressure upon said structural member.

27. The deck support bracket according to claims 1-25 further comprising:

a clamping mechanism to secure a deck plank to secure each said deck support bracket to restrain a deck plank from movement against each said deck support bracket.

28. The restraint means according to claims 2 through 23, inclusive, further comprising:

said deck support bracket having a restraint means at said restraint end to prevent deck



planks from sliding over said restraint end; and

said restraint means having a rail support means.

29. The mobile outrigger scaffold according to claims 1 through 12, and 22 through 25, further comprising:

a suspension line from said mobile outrigger scaffold.

30. The mobile outrigger scaffold according to claims 1 through 12, and 22 through 25, further comprising:

a suspension line from said mobile outrigger scaffold;

a motor for holding said suspension line to permit variable vertical movement of said suspension line.

31. The clamping mechanism according to claims 1-25, further comprising:

an ear tab attached to said clamping mechanism to retain said clamping mechanism adjacent to said flat plate for facilitating movement of said clamping mechanism.

32. The method according to claims 13-20, 24, and 35, further comprising:

removable means of securing said bracket onto said cylindrical protrusions.

33. The method of holding a deck support from vertical structural members of a structure to permit exterior movement of personnel and exterior disposition of equipment without ground-up scaffolding, according to claims 18-21, further comprising:

removing a coating from said vertical structural member prior to disposing said mobile outrigger scaffold on said vertical structural member.

34. The method according to claims 13-20, 24 and 25 further comprising:

mounting a removable means of securing said horizontal bracket onto at least one of said cylindrical protrusions.

35. The mobile outrigger scaffold according to claims 1-25, further comprising:

at least one reinforcement plate mounted adjacent to the corner of said at least one fold at the end of said mobile outrigger scaffold nearest to said clamping mechanism.